

Monthly Noise Report

May 2019

Prepared by:
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Environmental & Noise Analyst



Introduction:

DeKalb-Peachtree Airport (PDK) is located in a highly noise-sensitive area as it is surrounded by residential communities. Aircraft noise is noise pollution generated by an aircraft, and may occur during all phases of flight. For instance, while aircraft are on the ground, taxiing, operating auxiliary power units (APUs), and conducting run-ups may contribute noise pollution to the surrounding areas. While aircraft are in the air, noise pollution can occur underneath and to the sides of departure and arrival paths.

The primary goal of the **PDK Good Neighbor Program** is to serve as a community-based program with aims to reduce aircraft noise levels in the vicinity of the airport. Since its inception, the program has sought to increase awareness of airport operations and develop airport/community partnerships with the surrounding cities of Chamblee, Doraville, Dunwoody, Brookhaven, North Atlanta (including the Buckhead community), and others. The program is a multifaceted one that uses many approaches to convey information in a succinct manner.

The program strives to reduce overall aircraft noise disturbances by soliciting airport-user involvement. Community and airport participation, learning, and cooperation are the keys to the program's success.

This report provides a monthly summary of airport operations, noise disturbances, and impacts to the surrounding neighborhoods to airport users and the surrounding communities.

May 2019 Aircraft Operations:

	This Month	This Month, Last Year (May 2018)	% Change from May 2018	5-Year Average for Month
Total Operations	15,153	14,362	5.51%	14,064
Itinerant	10,904	10,041	8.59%	10,301
Local	4,249	4,321	-1.67%	3,763
Voluntary Curfew Ops	397	373	6.43%	356
Prior Authorization	116	(16) Noise disturbance calls associated with these flights. (4) Voluntary curfew ops were associated with these flights.		

**Prior Authorization
(Section 6-93 Code)**

Operation

Itinerant

Local

Voluntary Curfew Ops

Aircraft certified by the FAA with a max gross take-off weight greater than 75,000 pounds

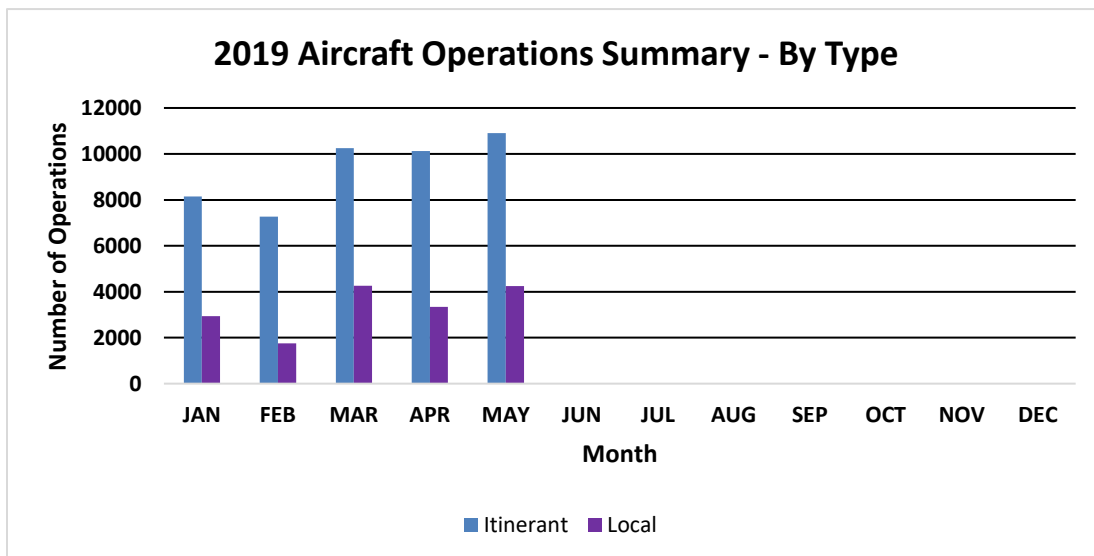
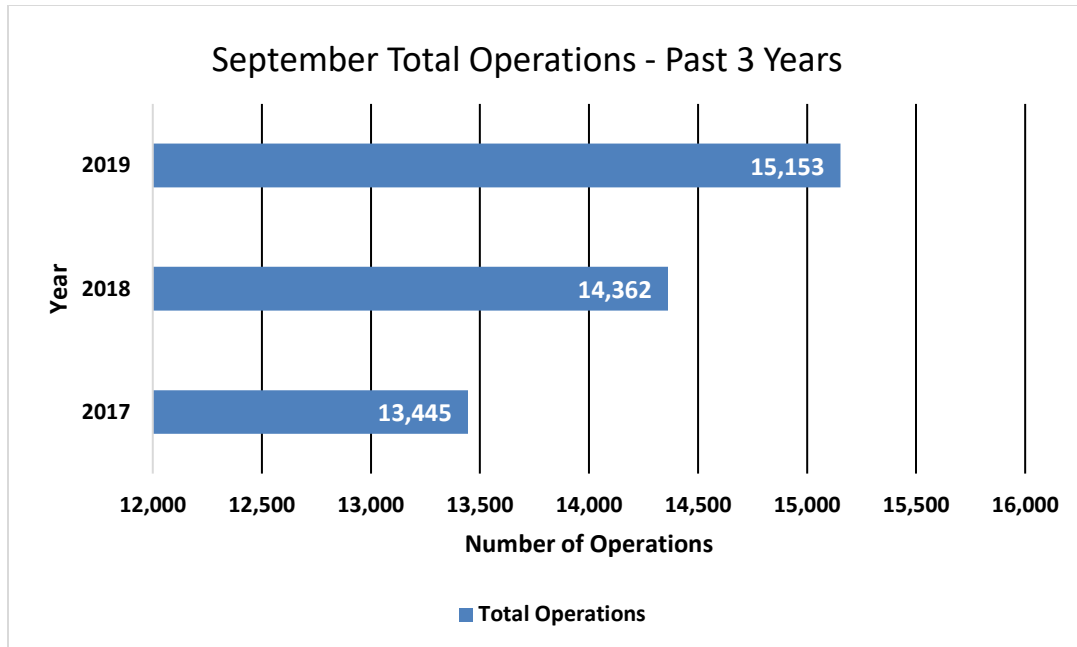
One take-off or landing. Touch-and-go counts as two operations

Non-touch-and-go (regular operations)

Operations within 20 miles of Airport

Operations that occur between the hours of 11:00 p.m. and 6:00 a.m.

May 2019 Aircraft Operations Summary

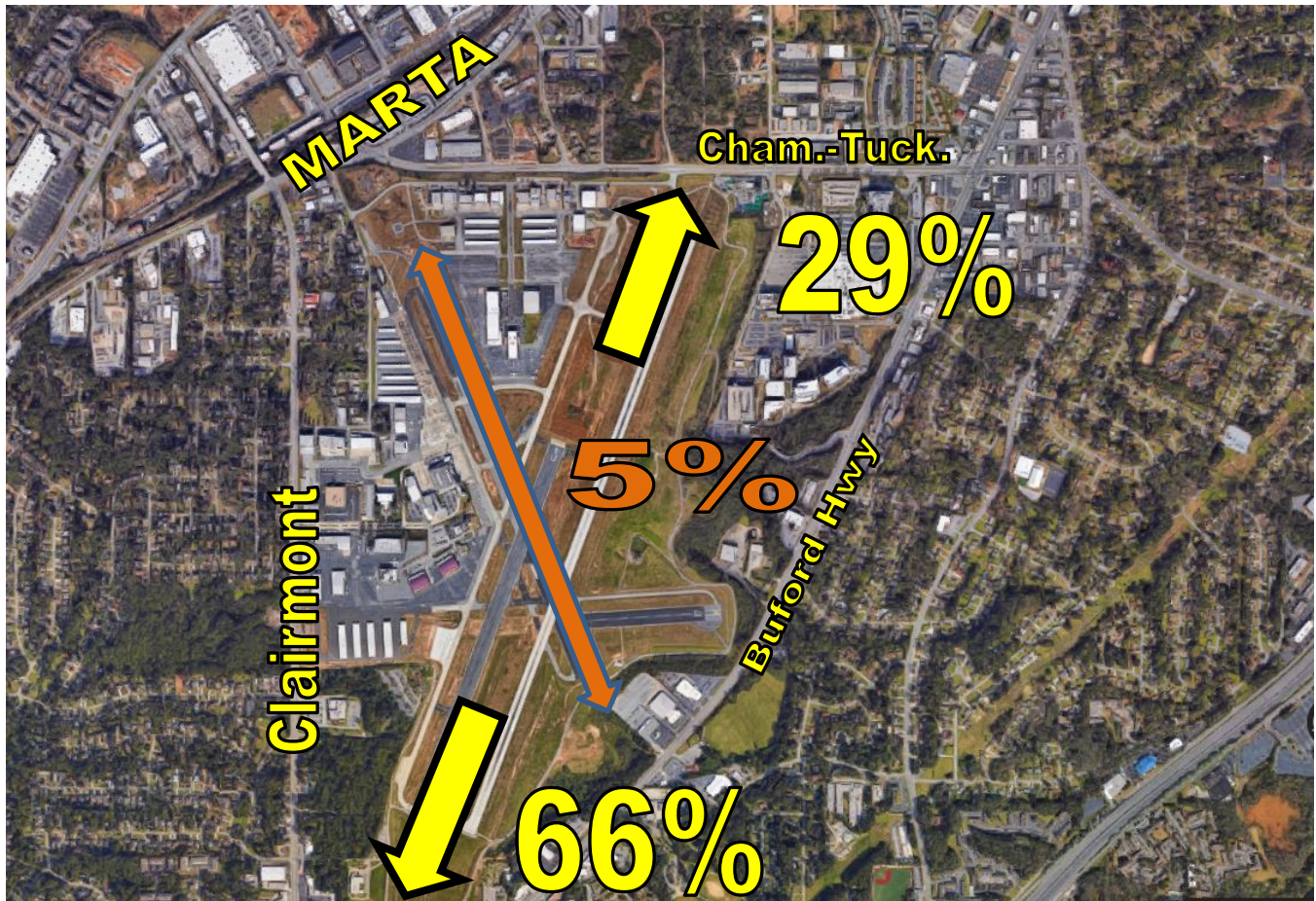


2018 Total Operations	2018 Total Operations as of May 2018	Total 2019 Ops as of May 2019
151,132	65,415	63,231 (-3.34%)

2019 Operations by Month				
	Itinerant	Local	Total Tower- Recorded Operations	Voluntary Curfew
JAN	8,151	2,934	11,085	301
FEB	7,268	1,753	9,021	340
MAR	10,247	4,259	14,506	323
APR	10,119	3,347	13,466	346
MAY	10,904	4,249	15,153	397
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

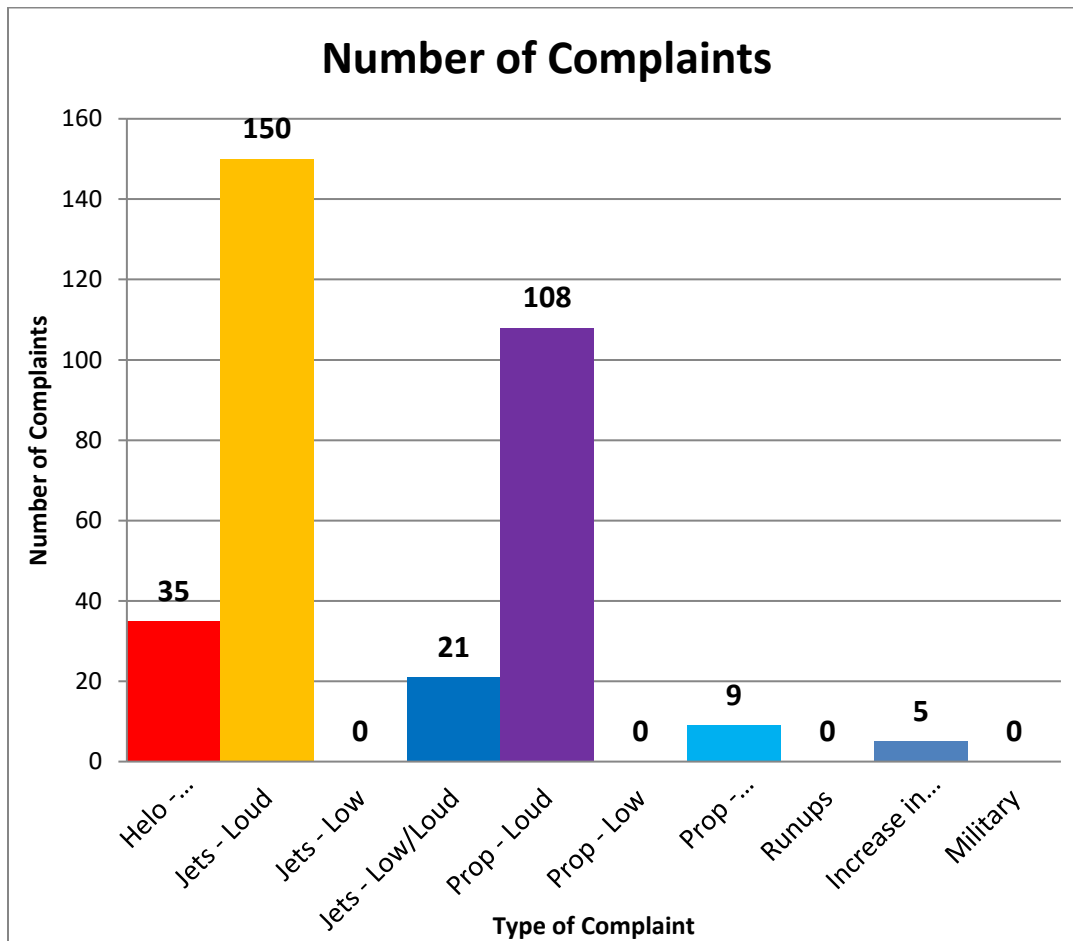
Runway Mode of Operations – May 2019

Directional use of runways has a major effect on flight patterns and the areas affected by flight operations. Weather and wind direction generally determines runway selection. When the tower is open, the FAA Air Traffic Control Tower determines the directional use of the runways. When possible, the tower will try to keep operations on a northbound flow (takeoffs and landings to the north) for noise abatement.

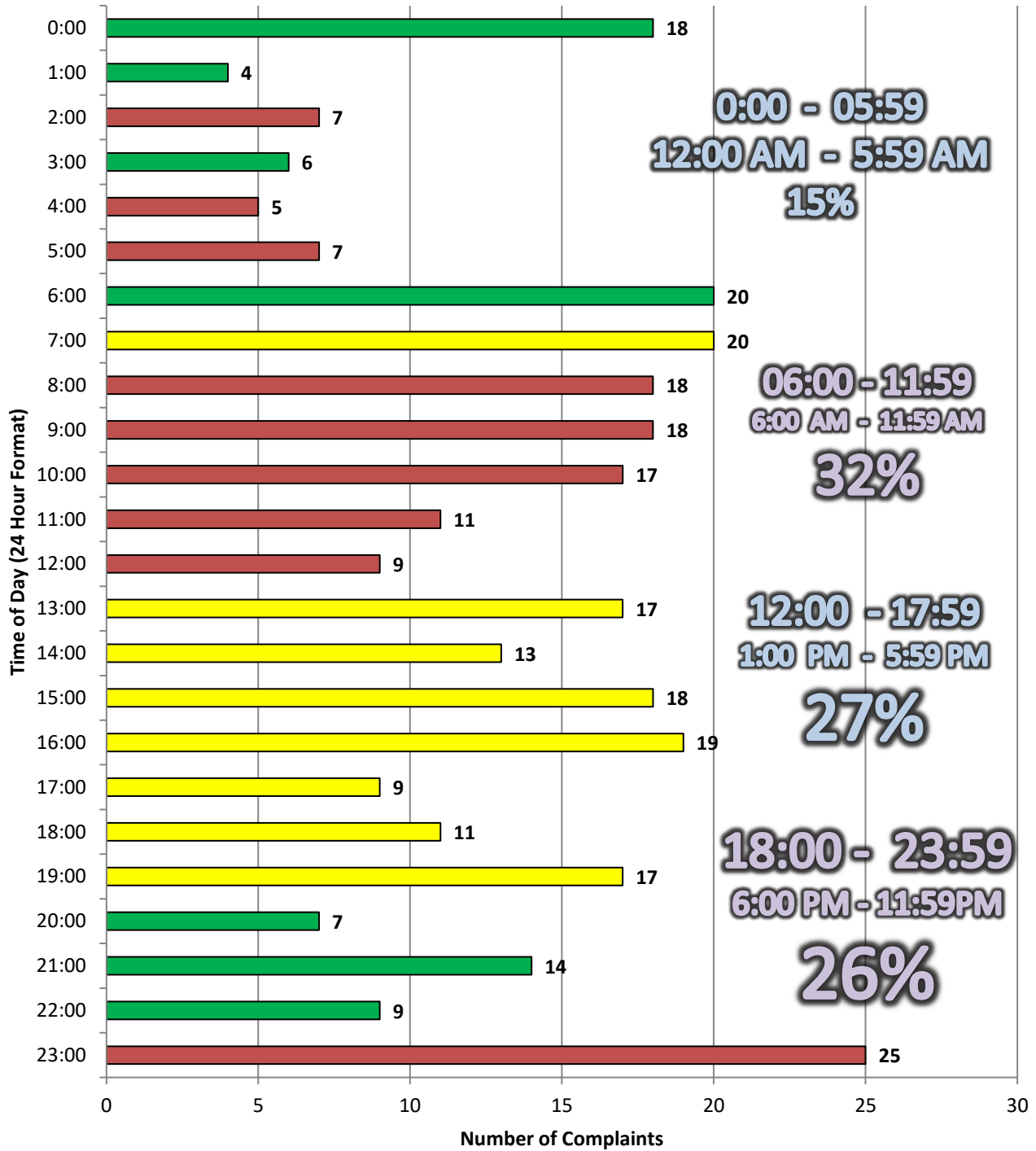


Noise Disturbance Summary

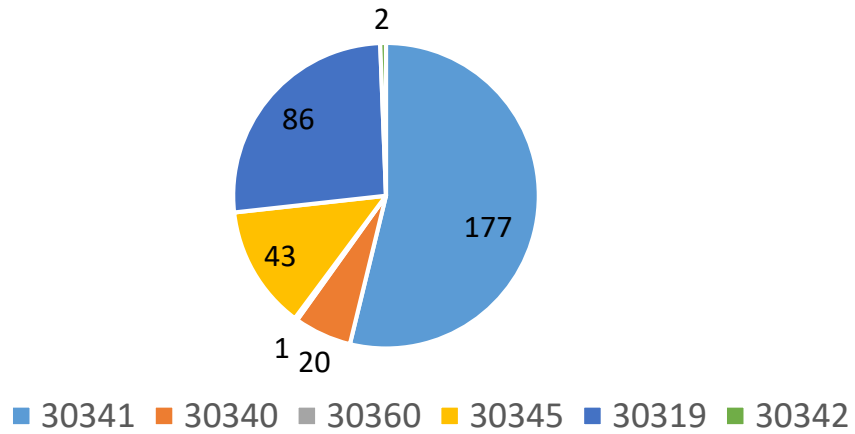
Total complaints for May 2019	Monthly Complaint Average 2019	May 2019 Complaints per Household <i>(minus top two/Households)</i>	May 2019 Complaints per Household <i>All Inclusive</i>
329	373	3.6	8.1



Number of Complaints by Hour



Complaints By Zip Code

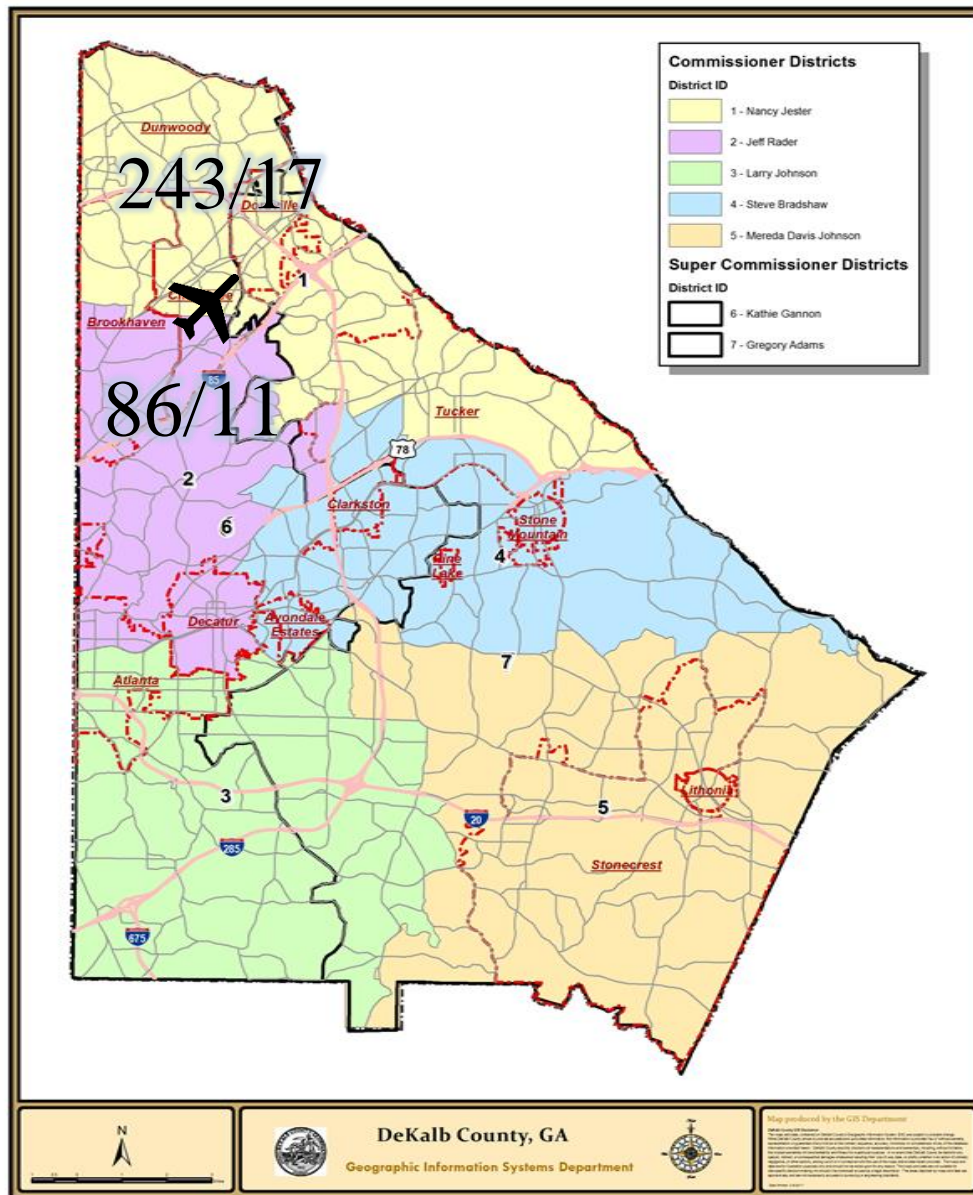


Zip Code Guide		
Zip Code	Community	% of Complaints
30319	Brookhaven	26.14%
30340	Chamblee - North	6.08%
30341	Chamblee – South	53.80%
30342	Sandy Springs	0.61%
30345	Tucker - West	13.07%
30360	Peachtree Corners	0.30%

Complaints by Caller

Name	Address	City	Zip Code	Complaints
Feldman	2376 Arrow Cir	Atlanta	30341	168
Anon - 1	2486 Skyland Trail NE	Atlanta	30319	67
Dutro	1641 Council Bluff Dr	Decatur	30345	31
Snyder	3439 Allison Dr	Doraville	30340	20
Doyle	2541 Dering Pl NE	Atlanta	30345	5
Terry	2652 Cove Circle NE	Atlanta	30319	4
Yates	1889 9th Street	Chamblee	30341	4
Brooks	2743 Redding Road NE	Atlanta	30319	3
Smith	2609 Skyland Dr NE	Atlanta	30319	3
Philips	2442 Wentworth Dr NE	Atlanta	30345	2
Hamilton	3029 Skyland Dr.	Chamblee	30341	2
Novotny	1029 Fairway Estates	Brookhaven	30319	2
Fibus	2743 Redding Road	Atlanta	30319	2
Patel	530 Telford Pl	Atlanta	30342	2
Crecente	2554 Drew Valley Rd NE	Atlanta	30319	1
Davidian	1806 Duke Road	Chamblee	30341	1
Dewitt	1463 Grant Dr	Brookhaven	30319	1
Smith	2002 Oak Grove Rd	Atlanta	30345	1
Friedman	1353 Brookhaven Village Cir NE	Atlanta	30319	1
Hynes	2276 Tanglewood Cir NE	Atlanta	30345	1
Nagel	3905 Winters Hill Drive	Atlanta	30360	1
Brady	1836 Bragg St	Chamblee	30341	1
Runestad	2430 Field Way	Brookhaven	30319	1
Schwartz	1685 Cotswold Drive NE	Brookhaven	30319	1
Blackwell	2679 Warwick Circle NE	Chamblee	30345	1
Mosler	1918 Gregory Run NE	Chamblee	30345	1
Riley	2562 Dering Cir	Chamblee	30341	1
Fox	2423 Woodacres Rd NE	Atlanta	30345	1

Complaints per Commission District



Total Number of Complaints
Total Number of Complainants

329/
28

There were 0 complainant(s) outside of DeKalb County with 0 complaint(s) total.

Correlation Chart of Noise Complaints to Operations

The airport correlated **322 (97.87%)** out of **329** complaints:

- **305 or 92.71%** of the noise complaints were found to be **Direct** correlations
- **17 or 5.86%** were **Indirect** correlations to operations
- **7 or 2.13%** were **Not Correlated**.
- **Direct** = Linked to a **specific flight operation to/from PDK** over a house/monitor (NOMS or manual correlation).
- **Indirect** = **Not linked to a specific flight operation** (take-off thrust, reverse thrust; maintenance run-ups) **OR** flight operation **not originating or terminating at PDK**.
- **Not correlated** = There was no noise event and/or aircraft track based on either NOMS correlation or manual research.

Definitions:

NOMS: Noise and Operations Monitoring System

Op Type: Operation; Approach, Departure, or Overflight

Name: Name of Complainant

Offense Start: Date/Time of offense to complainant

Flight ID: Tail number of aircraft or military call sign

Flight Time: Actual Date/Time of correlated offense

NMS: Noise Monitoring Station

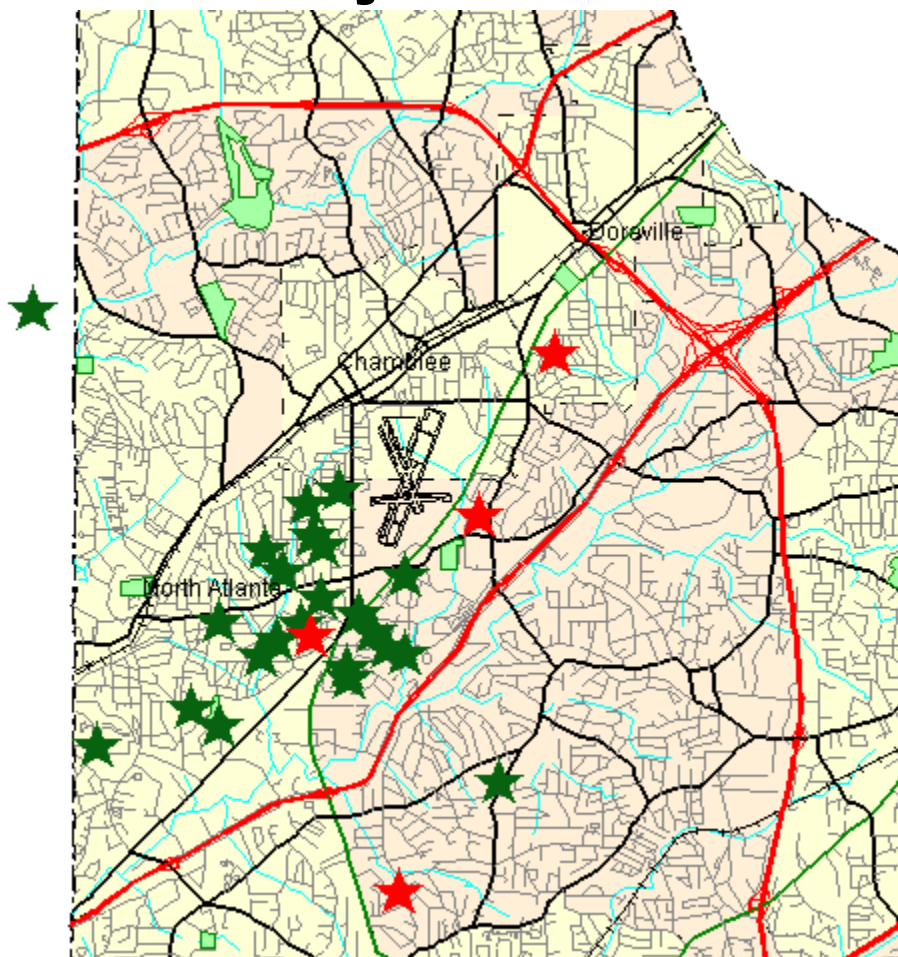
Rwy: Runway

LMAX: Maximum A-weighted sound level for a given event

Please contact: *Korey Barnes, Airport Noise and Environmental Analyst*, for more information regarding the PDK Good Neighbor Program at (770) 936-5440 or kbarnes@dekalbcountyga.gov.

PDK maintains a **hotline** that permits residents to report noise concerns by dialing: **(770) 936-5442** or e-mailing: pdnoise@dekalbcountyga.gov.

Disturbance Location Pin Map – May 2019



1-5 Complaints



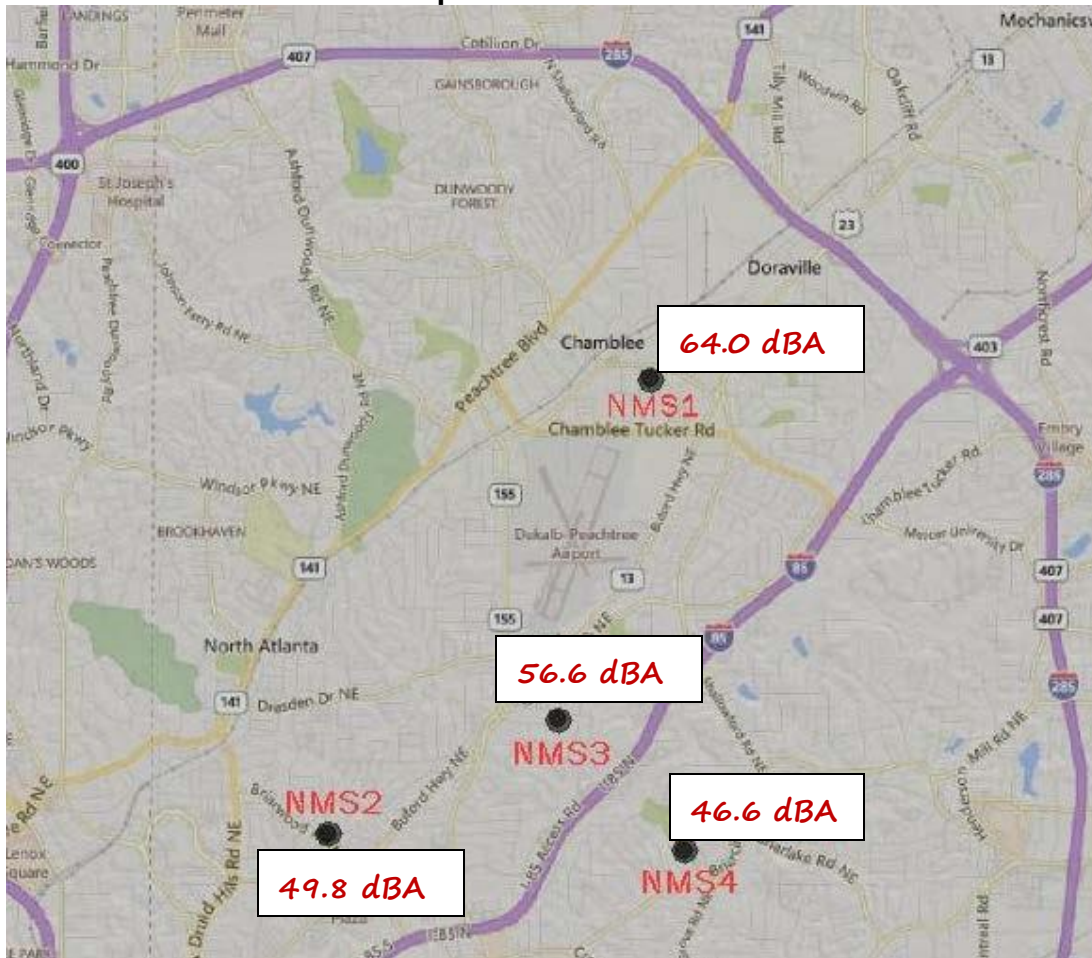
11+ Complaints

Complainants with Complaints Total

(1 Complainants outside of DeKalb County)

Monthly Noise Levels at Monitors

September 2019



Noise Terminology

- *Decibels (dB) are the unit of measurement on the loudness scale. Decibels that a human can hear are called “A-weighted” or “dBA” on the sound frequency scale.*
- *The decibel scale is logarithmic, not linear. The smallest detectable change 1 dB; 3 dB for a human is readily detectable; 10 dB seems twice as loud.*
- *L_{max} – The maximum A-weighted sound level for a given event – the highest level registered on the scale or meter; is not related to the duration for the event.*
- *DNL – A 24-hour time-averaged sound exposure level. It is the noise metric of choice in aircraft sound level measurement. It is also used to define noise contours of equal exposure. All Federal agencies have adopted DNL (LDNA) as the metric for airport noise analysis. (Day Night Level) (Day Night Level A-weighted)*
- *Leq – The steady A-weighted sound level over any specified period. It is used to identify the average sound level over a given period of time.*

Voluntary Curfew Operations & Operators Summary/Letter Status

Operations Summary:

The airport identified a total of **375 (94%)** of the **397** operations during the voluntary curfew period (11PM-6AM) during the month of **May 2019**. Of the **375** identified operations, **208 (55.5%)** were classified as **medical transport (e.g., MedEvac) or other critical flights**. These aircraft are identified in **red bold font** below.

- Out of the *identified* operations, **91 one-time** operations were conducted during this period.
- Out of the *identified* operations, **284 multi-time** operations were conducted during this period, (i.e., sum of all aircraft operations in which an aircraft flew more than once during the voluntary curfew).

Operators Identified / Multi-Use:

142 operators were identified using the airport during the voluntary curfew period (does not include unknown aircraft).

51 operators were identified using the airport during the voluntary curfew period for 2 or more times during the month.

28 multi-use operators were identified as MedEvac and/or emergency flights.

Complaints received from operations conducted during the voluntary curfew period:

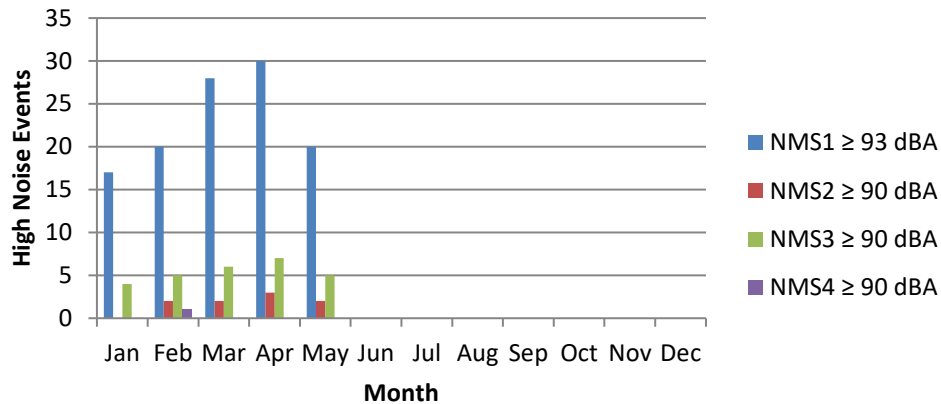
329 complaints were received during **May 2019**.

73 complaints were received for operations conducted during the voluntary curfew period (**including** those complaints that were found to be non-correlated or indirect).

High Noise Event Threshold

The high noise event threshold was developed to work with pilots in methods and techniques that could reduce aircraft noise levels in and around PDK and its residential areas. Noise Monitoring Station (NMS) 1 is located in a commercial district and is set at **93 dBA Lmax** or greater. All other monitors, NMS2, 3, & 4 are located in residential areas and are set at **90 dBA Lmax** or greater.

High Noise Events 2019



Comments/Concerns?

Please visit www.pdkairport.org for airport information. You may also contact the airport about noise concerns at pdknoise@dekalbcountyga.gov or call the noise hotline at (770) 936-5442.